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| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/653,236   | 09/03/2003  | Kang Soo Seo         | 46500-000538/US     | 4847             |
| 36593 7590 12/03/2008<br>HARNESS, DICKEY & PIERCE, P.L.C.<br>P.O. BOX 8910<br>RESTON, VA 20195 |             |                      |                     |                  |
| EXAMINER   |             |                      |                     |                  |
| CHOI, MICHAEL P  |             |                      |                     |                  |
| ART UNIT   |             | PAPER NUMBER         |                     |                  |
| 2621   |             |                      |                     |                  |
| MAIL DATE  |             | DELIVERY MODE        |                     |                  |
| 12/03/2008   |             | PAPER                |                     |                  |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/653,236

**Applicant(s)**

SEO ET AL.

**Examiner**

Michael Choi

**Art Unit**

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 August 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 4, 7, 8, 10, 13-18, 20-23, 25-29, 31-34 and 36-40 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 4, 7, 8, 10, 13-18, 20-23, 25-29, 31-34 and 36-40 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-849)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-4, 7, 8, 10, 13-18, 20-23, 25-29, 31-34 and 36-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ando et al. (US 2001/0046371 A1) in view of Murase et al. (US 5,907,658 A).

**Regarding Claim 1**, Ando et al. (hereinafter Ando) teach a computer readable medium having a data structure for managing reproduction of a slideshow of still images recorded on the computer readable medium, comprising:

- A clip information area (Fig.1(b) - data area having audio/video related information recording area) storing at least one clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures), each clip information file being associated with at least one stream file stored in a data area (in at least Figs. 7, 8, 10, 12, 13 - still pictures as per audio presentation of associated audio tracks), the clip information file providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 - start addresses and presentation start times as reproduced by program chains); and

- a playlist area storing a playlist file (Fig. 1 – audio/video recording area, 121, containing program chains), the playlist file referencing the clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain) and including navigation information (Page 6, Paragraph [0150]) for reproducing (at least Page 3, Paragraph [0080]) still images and audio data together as a slideshow (Figs. 6A, 6B).

Ando fails to explicitly teach the playlist area being separate from the clip information area. Murase teaches the playlist area being separate from the clip information area (in at least Figs. 12A,B – PGC information in video title set management information separate from VOB #n within video title set).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

**Regarding Claim 2**, Ando teaches the computer readable medium of claim 1, wherein the navigation information links the still images and the audio data (in at least Figs. 7, 8, 10-13 – link with original track) such that presentation of the still images is synchronized with reproduction of the audio data (Fig. 7 – audio tracks associated with a still picture).

**Regarding Claim 3**, Ando teaches the computer readable medium of claim 1, wherein the navigation information links the still images and the audio data (in at least Figs. 7, 8, 10-13 – link with original track) such that reproduction of the audio data occurs independently of presentation of the still images (Figs. 15, S5 and 16, S11).

**Regarding Claim 4**, Ando teaches the computer readable medium of claim 1, wherein the navigation information indicates a duration to display each still image (Figs. 6A, 6B) during reproduction of the slideshow (Fig. 43 – duration).

**Regarding Claim 7**, Ando teaches the computer readable medium of claim 1, wherein the navigation information indicates whether progress of the slideshow from one still image to another still image is controlled by user input (Page 6, Paragraphs [0150+]).

**Regarding Claim 8**, Ando teaches the computer readable medium of claim 1, wherein the navigation information provides (Page 5, Paragraph [0104]; Page 6, Paragraph [0150]) information for skipping to one of a next and a previous still image from reproduction of at least one still image when the navigation information indicates (Fig. 10 – various still picture entry points concerning the various cell information having still pictures as grouped in a VOB) that progress of the slideshow from one still image to another still image (Figs. 6A, 6B) is controlled by user input (Page 5, Paragraph [0104] – user defined program chain).

**Regarding Claim 10**, Ando teaches the computer readable medium of claim 1, wherein one of a playitem field and a sub-playitem field in the playlist file provides navigation information for the still images (Fig. 10) and a different one of a playitem field and a sub-playitem field in the playlist file provides navigation information for the audio data (Fig. 1 – having audio track no. 1 with cell information as further clarified through illustration of program chain, Figs. 7, 8).

**Regarding Claim 13**, Ando teaches the computer readable medium of claim 1, wherein the playlist file includes mark information, the mark information includes a mark pointing to a still image (in at least Fig. 10 – still picture entry point).

**Regarding Claim 14**, Ando teaches the computer readable medium of claim 1, wherein: the audio data is stored as a separate stream file from a stream file containing the still images (in at least Figs. 1, 2, 3, 4 – still picture object recording area and stream separate from audio object recording area and stream); and wherein the playlist file links the separate stream file and the stream file containing the still images (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain).

**Regarding Claim 15**, Ando teaches a method of reproducing a slideshow, comprising:

- reproducing (Fig. 7 – reproduction of disc) a playlist file and at least one clip information file referenced by the playlist file from a recording medium (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each clip information file being associated with at least one stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures as per audio presentation of associated audio tracks) and providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 – start addresses and presentation start times as reproduced by program chains); and
- reproducing (at least Page 3, Paragraph [0080]; Page 11, Paragraphs [0214+]) a slideshow of still images and audio data (Figs. 6A, 6B) from the recording medium (Fig.

1 – audio/video recording area, 121, containing program chains) based on navigation information (Page 6, Paragraph [0150]) included in the reproduced playlist file (at least Page 3, Paragraph [0080]) recorded on the recording medium (Page 11, Paragraphs [0214+]) and the reproduced clip information file (in at least Fig. 7 – reproduction of disc with still images to output, Fig. 14).

Ando fails to explicitly teach stored in a playlist area and clip area, and the playlist area being separate from the clip information area. Murase teaches in a playlist area and clip area (in at least Figs. 12A,B – PGC information in video title set management information separate from VOB #n within video title set), the playlist area being separate from the clip information area (in at least Figs. 12A,B – PGC information in video title set management information separate from VOB #n within video title set).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

**Regarding Claim 16**, Ando teaches an apparatus for reproducing a slideshow, comprising:

- a pick up device configured to reproduce data recorded on a recording medium (Fig. 14 – disc drive, 409);
- a controller configured to control pick up to reproduce (Fig. 7 – reproduction of disc) a playlist file and at least one clip information file referenced by the playlist file from the recording medium (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each clip information file being associated with at least one stream file (in at least Figs. 7, 8, 10, 12, 13 - still

pictures as per audio presentation of associated audio tracks) and providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 - start addresses and presentation start times as reproduced by program chains); and

- the controller configured to control the pick up to reproduce a slideshow (Figs. 6A, 6B) of still images and audio data from the recording medium based on navigation information included in the reproduced playlist file and the reproduced clip information file (Fig. 6 - slideshow reproduction; Fig. 14 - D-PRO, 410; Page 11, Paragraphs [0216+]; Fig. 7 - still pictures with associated audio data as per program chain).

Ando fails to explicitly teach stored in a playlist area and clip area, and the playlist area being separate from the clip information area. Murase teaches in a playlist area and clip area (in at least Figs. 12A,B - PGC information in video title set management information separate from VOB #n within video title set), the playlist area being separate from the clip information area (in at least Figs. 12A,B - PGC information in video title set management information separate from VOB #n within video title set).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

**Regarding Claim 17**, Ando teaches a method of recording a data structure for managing reproduction of a slideshow of still images recorded on a recording medium, comprising:



- recording (Abstract) at least one clip information file in a clip information file area of the recording medium (Fig.1(b) - data area having audio/video related information recording area), each clip information file being associated with at least one stream file stored in a data area of the recording medium (in at least Figs. 7, 8, 10, 12, 13 - still pictures as per audio presentation of associated audio tracks) and providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 - start addresses and presentation start times as reproduced by program chains); and
- recording a playlist file (Page 11, Paragraphs [0214+]) in a playlist area of the recording medium (Fig. 1 - audio/video recording area, 121, containing program chains), the playlist file referencing the clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain) and including navigation information (Page 6, Paragraph [0150]) for reproducing (at least Page 3, Paragraph [0080]) still images and audio data together as a slideshow (Figs. 6A, 6B; 7).

Ando fails to explicitly teach the playlist area being separate from the clip information area. Murase teaches the playlist area being separate from the clip information area (in at least Figs. 12A,B - PGC information in video title set management information separate from VOB #n within video title set).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

**Regarding Claim 18**, Ando teaches an apparatus for recording a data structure for managing reproduction of a slideshow of still images recorded on a recording medium, comprising:

- pick up configured to record data on the recording medium (Fig. 14 – disc drive, 409);
- an encoder for encoding at least multiple reproduction path video data (Fig. 14 – encoder unit, 401); and
- a controller configured to control pick up to record (Abstract) at least one clip information file in a clip information file area of the recording medium (Fig.1(b) - data area having audio/video related information recording area), each clip information file being associated with at least one stream file stored in a data area of the recording medium (in at least Figs. 7, 8, 10, 12, 13 - still pictures as per audio presentation of associated audio tracks) and providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 – start addresses and presentation start times as reproduced by program chains); and
- the controller configured to control pick up to record a playlist file (Page 11, Paragraphs [0214+]) in a playlist area of the recording medium (Fig. 1 – audio/video recording area, 121, containing program chains), the playlist file referencing the clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain) and including navigation information (Page 6, Paragraph [0150]) for reproducing (at least Page 3, Paragraph [0080]) still images and audio data together as a slideshow (Figs. 6A, 6B; 7).

Ando fails to explicitly teach the playlist area being separate from the clip information area. Murase teaches the playlist area being separate from the clip information area (in at least Figs. 12A,B – PGC information in video title set management information separate from VOB #n within video title set).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

**Claims 20, 26, 31 and 37** are rejected under the same grounds as claim 7.

**Claims 21, 27, 32 and 38** are rejected under the same grounds as claim 8.

**Claims 22, 29, 33 and 40** are rejected under the same grounds as claim 13.

**Claims 23 and 34** are rejected under the same grounds as claim 2.

**Claims 25 and 36** are rejected under the same grounds as claim 4.

**Claims 28 and 39** are rejected under the same grounds as claim 10.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Choi whose telephone number is (571) 272-9594. The examiner can normally be reached on Monday - Friday 9:00AM - 5:30PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/  
Supervisory Patent Examiner, Art Unit 2621  
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